

IN THE CLAIMS

1-14. (cancelled).

15. (currently amended) An A computer readable storage medium having an invalidity-monitoring program stored thereon, wherein said invalidity-monitoring program, when executed, monitors for monitoring invalid data which causes a computer to execute an invalid operation, said invalidity-monitoring program comprising:

first software that acquires input/output data that is input or output over a network that is connected to said computer, or over an externally connected bus that connects said computer with an external device;

second software that identifies ID information from said input/output data for identifying a user;

third software that acquires at least part of user attribute data corresponding to said ID information from a user-information-storage unit that stores attribute information for all users having authorization to use said computer;

fourth software that referenees determines whether said input/output data is invalid data by reference to a determination-rule-storage unit that

stores rules for determining whether said input/output data is invalid data, and determines whether said input/output data is invalid data; and

fifth software that stops execution an operation executed by said input/output data when it is determined in said invalid data determination said fourth software determines that said input/output data is invalid data;

wherein

said determination-rule-storage unit stores determination rules that correspond to user attributes; and

said fourth software determines that references, in said determining of whether said input/output data is invalid data in accordance with, said determination rules that correspond to user attributes acquired by said third software attribute information acquired in the acquisition of attribute information determines whether said input/output data is invalid.

16. (currently amended) The invalidity-monitoring program of claim 15, further comprising:

sixth software that references said user-information-storage unit and determines whether the user corresponding to said ID information has authorization to use said computer; and

seventh software that stops operation by said input/output data when it is determined in the determination of authorization that there is no authorization to use said computer;

wherein said sixth software that determines authorization of the user to use said computer performs this before execution of said third and fourth software it is determined whether said input/output data is invalid data, and when the sixth software determines it is determined in the determining authorization that there is no authorization to use said computer, said program causes said computer to not execute at least one of the third and fourth software following: acquiring attribute information and said determination of whether said input/output data is invalid data.

17. (currently amended) The invalidity-monitoring program of claim 15, further comprising:

sixth software that references a profile-storage unit that stores log data related to said

input/output data as profiles for each user, and compares input/output data ~~that was acquired by said first software in said data acquisition~~ with a normal operation trend of said user to determine whether operation is unusual; and

wherein said fifth software that stops an operation executed by said input/output data in said stopping operation executed by said input/output data also when it is determined by said sixth software in said determining whether operation is unusual that that said operation is unusual.

18. (currently amended) The invalidity-monitoring program of claim 15, ~~further comprising wherein said fifth software that executes a process of interrupting a session in said stopping of the operation executed by said input/output data when said first software acquires said input/output data is acquired from a network in said acquisition of input/output data.~~

19. (currently amended) The invalidity-monitoring program of claim 15, ~~further comprising wherein said fifth software that stops the a process of executing executed by a driver in the stopping of the~~

~~operation executed by said input/output data when said~~
~~first software acquires said input/output data is~~
~~acquired from an externally connected bus in said~~
~~acquisition of input/output data.~~

20. (currently amended) An A computer
readable storage medium having an invalidity-monitoring
program stored thereon, wherein said invalidity-
monitoring program, when executed, monitors for
monitoring invalid data which causes a computer to
execute an invalid operation, said invalidity-monitoring
program comprising:

first software that acquires input/output data
that is input or output over a network that is connected
to said computer, or over an externally connected bus
that connects said computer with an external device;

second software that identifies ID information
from said input/output data for identifying a user;

third software that acquires at least part of
user attribute data corresponding to said ID information
from a user-information-storage unit that stores
attribute information for all users having authorization
to use said computer;

fourth software that determines whether said input/output data is invalid data by reference to references a determination-rule-storage unit that stores rules for determining whether said input/output data is invalid data, and determining whether said input/output data is invalid data; and

fifth software that notifies a terminal being operated by said user or administrator that an operation being executed by said input/output data is an invalid operation when it is determined in said determining said fourth software determines whether said input/output data is invalid that said input/output data is invalid data;

wherein

said determination-rule-storage unit stores determination rules that correspond to user attributes; and

said fourth software determines that references, in said step of determining whether said input/output data is invalid data, in accordance with said determination rules that correspond to user attributes acquired by said third software attribute information acquired in said step of acquiring attribute information to determine whether said input/output data is invalid data.

21. (currently amended) An invalidity-monitoring method for monitoring invalid data, which causes a computer to execute an invalid operation, comprising:

acquiring, by said computer, input/output data that is input or output over a network that is connected to said computer, or over an externally connected bus that connects said computer with an external device;

identifying, by said computer, ID information from said input/output data for identifying a user;

acquiring, by said computer, at least part of attribute data corresponding to said ID information from a user-information-storage unit that stores attribute information for all users having authorization to use said computer;

referencing, by said computer, a determination-rule-storage unit that stores rules for determining whether said input/output data is invalid data;

determining, by said computer, whether said input/output data is invalid data based on said rules; and

stopping, by said computer, execution an operation executed by said input/output data when it is

determined in said invalid data determination step that
said input/output data is invalid data;

wherein

said determination-rule-storage unit stores
determination rules that correspond to user attributes;
and

in said step of determining of whether said
input/output data is invalid data, referencing said
determination rules that correspond to user attributes
acquired in said acquiring of attribute information
attribute information acquired in said step of acquiring
attribute information to determine whether said
input/output data is invalid.

22. (currently amended) An invalidity-monitoring method for monitoring invalid data, which causes a computer to execute an invalid operation, comprising:

acquiring, by said computer, input/output data that is input or output over a network that is connected to said computer, or over an externally connected bus that connects said computer with an external device;

identifying, by said computer, ID information from said input/output data for identifying a user;

acquiring, by said computer, at least part of attribute data corresponding to said ID information from a user-information-storage unit that stores attribute information for all users having authorization to use said computer;

referencing, by said computer, a determination-rule-storage unit that stores rules for determining whether said input/output data is invalid data;

determining by said computer whether said input/output data is invalid data based on said rules;
and

notifying, by said computer, a terminal being operated by said user or administrator that an operation being executed by said input/output data is an invalid operation when it is determined ~~in said step of determining whether said input/output data is invalid~~ that said input/output data is invalid data;

wherein

said determination-rule-storage unit stores determination rules that correspond to user attributes;
and

in ~~said step of~~ determining of whether said input/output data is invalid data, referencing said determination rules that correspond to user attributes

acquired in said acquiring of attribute information
~~attribute information acquired in said step of acquiring~~
~~attribute information~~ to determine whether said
input/output data is invalid.

23. (currently amended) An invalidity-monitoring system for monitoring invalid data, which causes a computer to execute an invalid operation, the system comprising:

a computer having a connection to a network or to an external device;

a data-acquisition mechanism for acquiring input/output data that is input or output over the network that is connected to said computer, or over an externally connected bus that connects said computer with the external device;

an ID-information-identifier for identifying ID information from said input/output data for identifying a user;

a user-information-store for storing attribute information for all users having authorization to use said computer;

an attribute-information-acquisition mechanism for acquiring at least part of the attribute data

corresponding to said ID information from said user-information-store;

a determination-rule-store for storing rules for determining whether said input/output data is invalid data;

an invalid-data-determination mechanism for referencing said determination-rule-store, and determining whether said input/output data is invalid data; and

a stoppage mechanism for stopping execution an operation executed by said input/output data when it is determined by said invalid-data-determination mechanism that said input/output data is invalid data;

wherein

said determination-rule-store stores determination rules that correspond to user attributes; and

said invalid-data-determination mechanism references said determination rules that correspond to attribute information acquired by said attribute-information-acquisition mechanism to determine whether said input/output data is invalid.

24. (currently amended) The invalidity-monitoring system of claim 23 further comprising:

a use-authorization-determination mechanism for referencing said user-information-store and determining whether the user corresponding to said ID information has authorization to use said computer;

wherein

said stoppage mechanism also stops operation executed by said input/output data when it is determined by said use-authorization-determination mechanism that there is no authorization to use said computer;

said use-authorization-determination mechanism is activated before said attribute information-acquisition mechanism and said invalid-data-determination mechanism; and

when it is determined by said use-authorization-determination mechanism that there is no authorization to use said computer, at least one of the following; said attribute-information-acquisition mechanism or said invalid-data-determination mechanism does not execute.

25. (previously presented) The invalidity-monitoring system of claim 23 further comprising:

a profile-store for storing log data related to said input/output data as profiles for each user; and an unusual-operation-determination mechanism for referencing said profile-store and comparing input/output data that was acquired by said data-acquisition mechanism with the normal operation trend of said user to determine whether operation is unusual; wherein said stoppage mechanism also stops an operation executed by said input/output data when it is determined by said unusual-operation-determination mechanism that operation is unusual.

26. (previously presented) The invalidity-monitoring system of claim 23, wherein said stoppage mechanism executes a process of interrupting a session when said data-acquisition mechanism acquired said input/output data from a network.

27. (currently amended) The invalidity-monitoring system of claim 23, wherein said stoppage mechanism stops a process ~~of executing~~ executed by a driver when said data-acquisition mechanism acquired said input/output data from an externally connected bus.

28. (currently amended) An invalidity-monitoring system for monitoring invalid data, which causes a computer to execute an invalid operation, the system comprising:

a computer having a connection to a network or to an external device;

a data-acquisition mechanism for acquiring input/output data that is input or output over the network that is connected to said computer, or over an externally connected bus that connects said computer with the external device;

an ID-information-identification mechanism for identifying ID information from said input/output data for identifying a user;

a user-information-store for storing attribute information for all users having authorization to use said computer;

an attribute-information-acquisition mechanism for acquiring at least part of the attribute data corresponding to said ID information from said user-information-store;

a determination-rule-storage mechanism for storing rules for determining whether said input/output data is invalid data;

an invalid-data-determination mechanism for referencing said determination-rule-storage mechanism ~~determination rule store~~, and determining whether said input/output data is invalid data; and

a notification mechanism for notifying ~~the a~~ terminal being operated by said user or administrator that an operation being executed by said input/output data is an invalid operation when it is determined by said invalid-data-determination ~~means~~ mechanism that said input/output data is invalid data;

wherein

said determination-rule-storage mechanism stores determination rules that correspond to user attributes; and

said invalid-data-determination mechanism references said determination rules that correspond to attribute information acquired by said attribute-information-acquisition mechanism to determine whether said input/output data is invalid.